

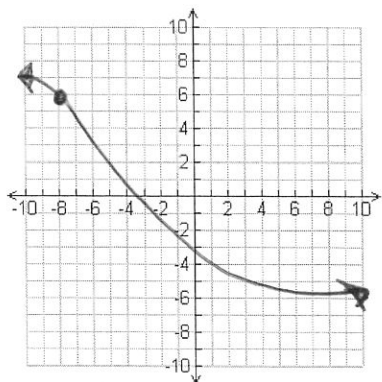
Name:

Ch 5 Part 1 Take Home Test

1.18.13

Directions: Determine whether the following are functions, if they are functions determine if they are linear.

1.



Linear: YES NO

Function: YES NO

2.  $5x - 3^2 = 4y + 1$

Linear: YES NO

Function: YES NO

Directions: Determine the x and y intercepts of the following:

4.  $y = \frac{3}{4}x + 6$

5.  $2x - 7y = 56$

8. What does it mean to have a slope of a line? (Copying a definition out of a book is not what I am looking for, I want a detailed explanation)

9. Describe what each variable in the following formula represents.

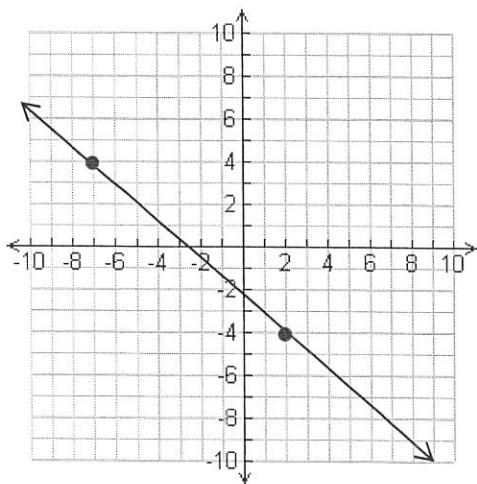
$$y = mx + b$$

10. Describe what each variable in the following formula represents.

$$Ax + By = C$$

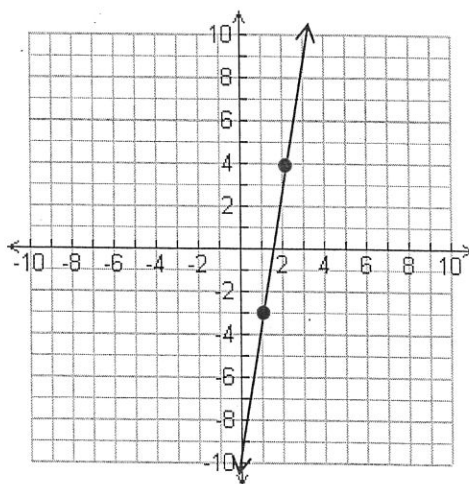
Directions: Determine the slope of a line given the following.

11.



Slope: \_\_\_\_\_

12.



Slope: \_\_\_\_\_

13.  $2x - y = 4$

Slope: \_\_\_\_\_

16.  $(-7, 3), (-2, -8)$

Slope: \_\_\_\_\_

Directions: Determine the unknown variable from the given information.

17.  $\frac{\Delta y}{\Delta x} = \frac{1}{6}$   $(1, y), (-2, 15)$

18.  $m = \frac{-4}{3}$   $(4, 2), (x, 5)$

Directions: Determine the unknown variable from the given information.

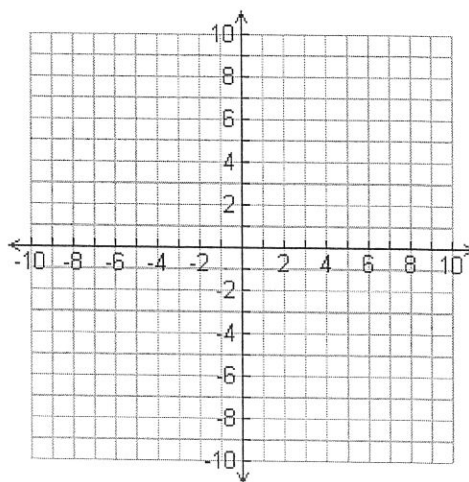
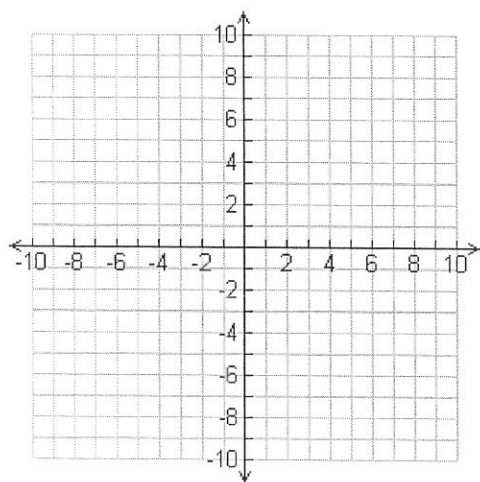
19.  $\frac{\Delta y}{\Delta x} = -\frac{1}{2}$   $(-3, 4), (-7, y)$

20. slope = 2  $(-1, 1) (x, 5)$

Directions: Write the following Equations in Slope-Intercept form then graph the line only using the slope and intercept.

21.  $2x - y = -1$

22.  $3x + 4y = -12$



Directions: Graph the following using x and y intercepts.

23.  $-5x + 3y = 9$

24.  $y = -4x - 2$

